

Title (en)
HIGH-STRENGTH SHEET STEEL AND METHOD FOR MANUFACTURING SAME

Title (de)
HOCHFESTES STAHLBLECH UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
TÔLE D'ACIER À RÉSISTANCE ÉLEVÉE ET PROCÉDÉ DE FABRICATION DE LADITE TÔLE D'ACIER

Publication
EP 3778973 A4 20210217 (EN)

Application
EP 19777630 A 20190320

Priority
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Abstract (en)
[origin: EP3778973A1] A high-strength steel sheet according to the present invention has a steel structure with ferrite being 35% or more and 80% or less, martensite being 5% or more and 35% or less, and tempered martensite being 0% or more and 5% or less in terms of area fraction and retained austenite being 8% or more in terms of volume fraction, in addition, an average grain size of the ferrite being 6 μm or less, an average grain size of the retained austenite being 3 μm or less, and a value obtained by dividing an area fraction of blocky austenite by a sum of area fractions of lath-like austenite and the blocky austenite being 0.6 or more, a value obtained by dividing an average Mn content in the retained austenite by an average Mn content in the ferrite being 1.5 or more, and a value obtained by dividing an average C content in the retained austenite by an average C content in the ferrite being 3.0 or more.

IPC 8 full level
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Citation (search report)
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• [Y] EP 2757169 A1 20140723 - JFE STEEL CORP [JP]
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• See also references of WO 2019188640A1

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